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A new *Epipsestis* (Lepidoptera, Thyatiridae) and records of some allies from China based on the Höne collection

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Abstract. A new species of the genus *Epipsestis* Matsumura, 1921, *E. stueningi* sp. n. is described from N. Yunnan, China, based on the rich material of the Museum Alexander Koenig, Bonn, brought together by H. Höne. At the same time *Epipsestis albidisca* (Warren, 1888) and *Nothoploca nigripunctata* (Warren, 1915) are first recorded from N. Yunnan. A check list of the species of the genera *Epipsestis* and *Nothoploca* is given. Key words. Lepidoptera, Thyatiridae, *Epipsestis stueningi* sp. n., China.

Through the personal communication with Mr D. Stüning of the Museum Alexander Koenig, Bonn, I learned that three species of "Polyploca" (sensu lato) of China are preserved in the Höne collection. Two of them were labelled with unpublished names proposed by H. Sick and the remaining one was left undetermined. After close exanimation of many specimens of these three species, which Mr Stüning kindly sent me for study, I have come to the conclusion that the first two species are Epipsestis albidisca (Warren, 1888) and Nothoploca nigripunctata (Warren, 1915), and that the third one represents an undescribed species of Epipsestis Matsumura, 1921. Below I will enumerate these species and add a record of another Epipsestis from the Höne collection.

Epipsestis stueningi sp. nov. (Figs. 1-2, 4-5)

of Q. Length of forewing 14—17 mm. Expanse 30—35 mm. Similar to a certain form of E. dubia (Warren, 1888) (Figs. 3, 6), but the maculation of forewing is very characteristic. Forewing pale whitish gray to brownish gray, with a brown median area; raised-scale tufts on subcosta, in cell, and on cross-vein, usually black, in some specimens represented by yellow, that in cell roundish but sometimes disappearing; subbasal line thick and white, waved; in median area, generally a wide and oblique white band from costa to cell and usually a small white shade above hind margin; postmedian line white, serrate, outsidely edged with black; subterminal line white, zigzag, insidely accompanied with brownish shades between veins 4 and 6, and below vein 3; an apical streak brownish black; terminal line thin and black; cilia pale gray, with a thin brown line in the middle, and sending out in rays with brown beyond each vein. Hindwing pale brownish gray, its outer half darker, with veins faintly stained with brown; cilia nearly as on forewing, but the middle line very obscure.

Male genitalia (Fig. 13). Uncus stout, with a pair of large quadrate lobes on ventral rims; socius short and angulate; tegumen broad; anellus pentagonal, its bottom narrowly extending laterally, densely covered with minute teeth, those near lateral sides strong; valva narrow, sacculus stout and its dorsal margin well sclerotized, arch-

ed, and minutely serrate beyond middle, bearing a stout dent before tip; aedeagus with a curved apical process, vesica bearing a mass of minute spines in regular rows.

Female genitalia (Fig. 15). Papillae anales large, sclerotized region between them trigonal and wide, densely covered with minute spines; ventral membrane of 8th segment widely covered with minute spines at sides before V-shaped lamella antevaginalis; 8th dorsum strongly protrudent caudally and covering papillae anales, and invagination of caudal wall very deep; ductus bursae long and twisted, swollen below ostium; corpus bursae large oval, signum pyriform, lined with minute dents.

Holotype. \circ (Fig. 1), labelled "Li-kiang ca. 4000 m, Prov. Nord-Yuennan, 18. 9. 1935. H. Höne/Tafel IX, L. R. 3.", preserved in the Museum Alexander Koenig, Bonn.

Paratypes. 133 \circlearrowleft 49 \circlearrowleft from Likiang, N. Yunnan, H. Höne leg. Collecting dates as follows: Li-kiang, ca. 2000 m: 2 \circlearrowleft , 30. viii. 1935; 86 \circlearrowleft 35 \circlearrowleft , 2—30. ix. 1935; 1 \circlearrowleft , 3. ix. 1935, slide HY-1446; 1 \circlearrowleft , 6. ix. 1935, slide HY-1444; 1 \circlearrowleft , 9. ix. 1935, slide K. Werny GU: 0211; 1 \circlearrowleft 1 \circlearrowleft , 22. ix. 1935, slides K. Werny GU: 0212 (\circlearrowleft), HY-1447 (\circlearrowleft); 1 \circlearrowleft , 23. ix. 1935, slide K. Werny GU: 0216; 1 \circlearrowleft , 25. ix. 1935, slide HY-1442; 1 \circlearrowleft , 28. ix. 1935, slide K. Werny GU: 0351; 10 \circlearrowleft 2 \circlearrowleft , 1—19. x. 1935.

Ditto, ca. 3000 m: 7 °, 1-30. ix. 1935; 1 °, 19. ix. 1935; 1 °, 23. x. 1935, slide HY-1443. Ditto, ca. 4000 m: 1 °, 22. viii. 1935; 22 ° 7 °, 3-29. ix. 1935.

The paratypes will be preserved in the Museum Alexander Koenig, Bonn, the British Museum (Nat. Hist.), London, Academia Sinica, Beijing, and my own cabinet.

Remarks. This species is easily distinguished from *E. dubia* (Warren) by a costal oblique white band in the median area of forewing in most cases, but there are a few specimens lacking this white marking. In the genitalia, the present new species differs from *E. dubia* in having a pair of large quadrate lobes on undersurface of uncus and a strong terminal projection on sacculus in the male, and in having a signum on bursa in the female.

In north Yunnan Province, this species seems most dominant among the members of *Epipsestis*, and it is very interesting that the close relative, *E. dubia* (Warren), was not taken in this area, which is a wide spread and the most dominant species from W. Himalaya to Taiwan via N. India (Sikkim, Darjeeling). It is highly probable that *E. stueningi* is a vicarious species of *dubia* in N. Yunnan.

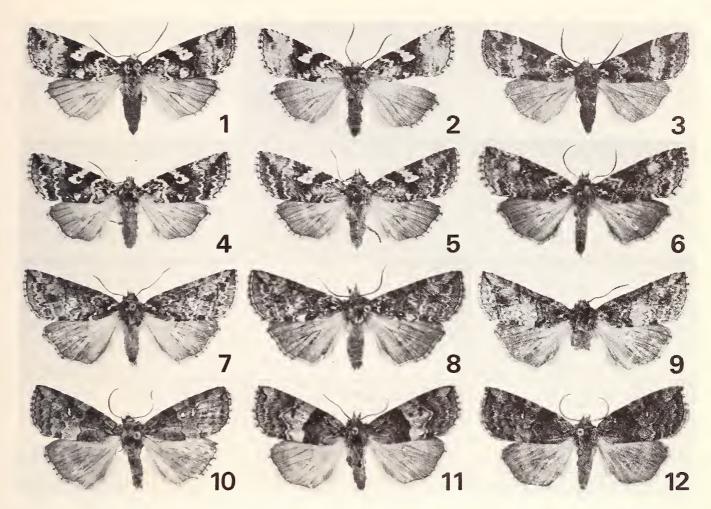
The specific name is dedicated to Mr Dieter Stüning, who kindly informed me on this interesting insect and sent me the above-mentioned specimens.

Epipsestis albidisca (Warren, 1888) (Figs. 7–9)

Polyploca albidisca Warren, 1888: 299; Butler, 1889: 49, pl. 126: 3. Palimpsestis albidisca Moore, 1888: 408; Warren, 1912: 328, pl. 49: i. Epipsestis albidisca: Yoshimoto, 1982: 126, figs. 7—9, 21, 24, 27, 34, 44. Polyploca polychromata Hampson, 1896: 463.

Specimens examined. Li-kiang, ca. 2000 m: 1 \circ , 4. ix. 1935; 1 \circ , 23. ix. 1935; 2 \circ , 24. ix. 1935 (one labelled "Typus/Polyploca irregularis Sick, Det. Herb Sick/Polyploca irregularis Sick", the other labelled "Tafel IX, L. R. 1"); 1 \circ , 25. ix. 1935, slide HY-1445; 1 \circ , 26. ix. 1935, slide K. Werny GU: 0162; 2 \circ 1 \circ , 27. ix. 1935 (1 \circ labelled "Polyploca castanea Warren"); 1 \circ , 28. ix. 1935; 3 \circ 1 \circ , 29. ix. 1935, slides K. Werny GU: 0170 (\circ), 0163 (\circ). Ditto, ca. 3000 m: 1 \circ , 17. x. 1935, slide K. Werny GU: 0161. Ditto, ca. 4000 m: 1 \circ , 24. ix. 1935.

Remarks. "Polyploca irregularis Sick", cited above, seems a manuscript name. This species is rather widely distributed from the west Himalaya (Kashmir) to North



Figs. 1—12. Epipsestis and Nothoploca spp. 1. E. stueningi sp. n., \circlearrowleft , holotype. 2. ditto, \circlearrowleft , paratype. 3. E. dubia (Warren), \circlearrowleft , Nepal. 4—5. E. stueningi sp. n., \circlearrowleft , paratypes. 6. E. dubia (Warren), \circlearrowleft , Taiwan. 7—9. E. albidisca (Warren), \circlearrowleft , Yunnan. 10—12. N. n. nigripunctata (Warren), \circlearrowleft (10—11), \circlearrowleft (12), Yunnan.

Thailand (unrecorded), of which I have examined one specimen (1 °, N. Thailand, Chiang Mai Prov., Doi Inthanon Nat. Park, 2200-2500 m, 22-23. x. 1984, O. Karsholt, O. Lomholdt & P. Nielsen leg.).

Epipsestis perornata sicki Yoshimoto, 1988

Epipsestis perornata sicki Yoshimoto, 1988: 85, figs. 4-5, 14. Polyploca nigropunctata Sick, 1941: 5 (preoccupied by Warren, 1915).

Specimens examined. Li-kiang, ca. 1500 m: 1 °, lectotype, 11. x. 1935.

Ditto, ca. 2000 m: 1 °C, paralectotype, 18. x. 1935.

Remarks. The two specimens were already recorded and designated as lecto- and paralectotypes in my 1988 paper. Recently Tshistjakov & Dubatolov (1987) recorded this species from the Primorye district of USSR and figured the moths and male genitalia. According to their figure of genitalia, the Primoryan specimens are safely referred to the nominotypical subspecies of *E. perornata* Inoue, 1972, originally described from Japan.

Nothoploca nigripunctata nigripunctata (Warren, 1915) (Figs. 10-12)

Polyploca nigripunctata Warren, 1915: 157.
Nothoploca nigripunctata: Yoshimoto, 1983: 127, figs. 1-2, 4-5, 7, 9, 11.

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Specimens examined. Li-kiang, ca. 2000 m: 1 o, 31. vii. 1935; 1 o, 1. ix. 1935, slide K. Werny GU: 0160; 1 o, 2. ix. 1935, slide K. Werny GU: 0178; 1 o, 3. ix. 1935; 1 o 1 o, 5. ix. 1935 (old labelled "Tafel IX, R. R. 3)"; 1 o 1 o, 6. ix. 1935; 2 o, 7. ix. 1935 (one labelled "Typus/Polyploca tripartita Sick, Det. Herb Sick/Polyploca tripartita Sick"); 1 o, 9. ix. 1935, slide K. Werny GU: 0259; 2 o, 10. ix. 1935; 1 o, 12. ix. 1935; 1 o 1 o, 14. ix. 1935; 1 o, 17. ix. 1935; 1 o, 21. ix. 1935; 1 o, 24. ix. 1935.

Ditto, ca. 3000 m: 1 o, 15. viii. 1935.

A-tun-tse, ca. 4000 m: Yunnan: 1 o, 10. viii. 1937.

Remarks. Dubatolov (1987) described a new subspecies, *N. n. zolotarenkoi*, from the Primorye district of USSR. The north Yunnan specimens are here referred to the nominotypical subspecies from N. India (Sikkim), but the median area of forewing of Yunnan specimens is not so whitish as in the nominotypical race, and may be separated from it as a subspecies. The decision is here postponed because of the lack of chance to compare them with *N. n. zolotarenkoi*. "*Polyploca tripartita* Sick", cited above, is considered a manuscript name.

By this opportunity, I give a check list of *Epipsestis* Matsumura, 1921, and *Nothoploca* Yoshimoto, 1983.

Epipsestis Matsumura, 1921: 858

Type species: Polyploca ornata Leech, [1889].

Neopsestis Matsumura, 1933: 195. Type species: Polyploca nikkoensis Matsumura, 1921. Sugiploca Matsumura, 1933: 198, 199. Type species: Sugiploca sugitanii Matsumura, 1933.

1. E. ornata ornata (Leech, [1889: 653]).

Sugiploca sugitanii Matsumura, 1933: 198.

E. ornata, f. unicolor (Leech, [1889: 653]).

Range. Japan.

- 1a. *E. ornata obscurata* Tshistjakov in Tshistjakov & Dubatolov, 1987: 135. Range. Primorye region of USSR.
- 2. *E. nikkoensis* (Matsumura, 1921: 856). Range. Japan, Taiwan and Nepal.
- 3. E. castaneata (Warren, 1915: 157). Range. N. India and Nepal.
- 4. *E. perornata perornata* Inoue, 1972: 32. Range. Japan and Primorye region of USSR.
- 4a. *E. perornata sicki* Yoshimoto, 1988: 85. *Polyploca nigropunctata* Sick, 1941: 5. Range. S. China (Yunnan), N. India and Nepal.
- 5. E. dubia (Warren, 1888: 300).

Polyploca nigrifasciata Warren, 1915: 158.

P. nigrifasciata, ab. semifascia Warren, 1915: 158.

P. nigrifasciata, ab. nigrilineata Warren, 1915: 158.

Range. W. India, N. India, Nepal and Taiwan.

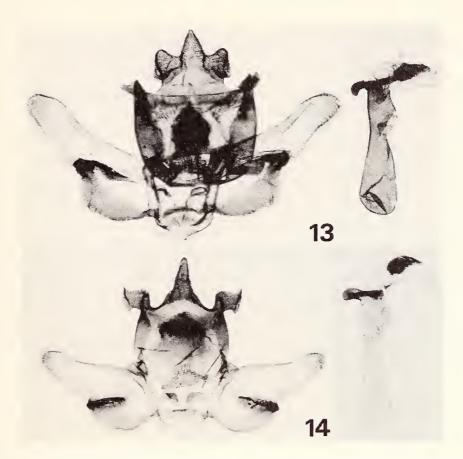
- 6. *E. stueningi* Yoshimoto, sp. n. Range. S. China (Yunnan).
- 7. E. albidisca (Warren, 1888: 299).

Palimpsestis albidisca Moore, 1888: 408.

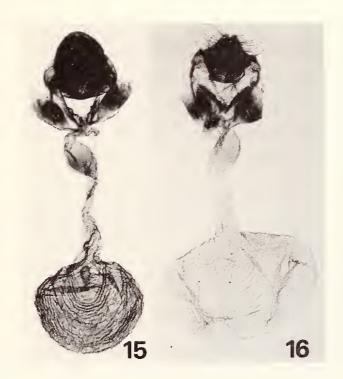
Polyploca polychromata Hampson, 1896: 463.

Range. W. India, N. India, S. China (Yunnan) and N. Thailand (unrecorded).

A new Epipsestis from China



Figs. 13—14. Male genitalia of *Epipsestis* spp. 13. *E. stueningi* sp. n., paratype. 14. *E. dubia* (Warren), Nepal.



Figs. 15—16. Female genitalia of *Epipsestis* spp. 15. *E. stueningi* sp. n., paratype. 16. *E. dubia* (Warren), Nepal.

- 8. E. bilineata bilineata (Warren, 1915: 159).

 Polyploca acutangula Warren, 1915: 159.

 Range. N. India and Nepal.
- 8a. E. bilineata pallida Yoshimoto, 1984: 34. Range. Taiwan.

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- 9. *E. longipennis* Yoshimoto, 1982: 129. Range. N. India and Nepal.
- 10. *E. medialis* Yoshimoto, 1982: 131. Range. Nepal.
- 11. E. mediofusca Yoshimoto, 1982: 132. Range. Nepal.
- 12. *E. renalis* (Moore, 1888: 407).
 Range. W. India, Nepal and N. Thailand (unrecorded).

Nothoploca Yoshimoto, 1983: 125.

Type species: Polyploca nigripunctata Warren, 1915.

- 1. *N. nigripunctata nigripunctata* (Warren, 1915: 157). Range. N. India, Nepal, Bhutan and S. China (Yunnan).
- 1a. *N. nigripunctata zolotarenkoi* Dubatolov, 1987: 61. Range. Primorye region of USSR.
- 2. *N. endoi* Yoshimoto, 1983: 128. Range. Taiwan.

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Zusammenfassung

Nach Material aus der Höne-Sammlung des Museums Alexander Koenig wird eine neue Art der Gattung *Epipsestis* Matsumura, 1921, beschrieben: *E. stueningi* sp. n. aus N.-Yunnan, China. Die Sammlung enthält weiterhin Erstnachweise der Arten *Epipsestis albidisca* (Warren, 1888) und *Nothoploca nigripunctata* (Warren, 1915) für N.-Yunnan. Eine Liste der Arten von *Epipsestis* und *Nothoploca* wird gegeben.

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